

SAFETY DATA SHEET

Creation Date 11-Jan-2010

Revision Date 19-Jan-2018

Revision Number 3

1. Identification

AC364860000; AC364860250; AC364861000

Product Name

Benzyltrimethylammonium bromide

Cat No. :

CAS-No Synonyms 5350-41-4 Trimethylammonium bromide

Recommended Use Uses advised against Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

<u>Company</u> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute dermal toxicity Acute Inhalation Toxicity - Dusts and Mists Skin Corrosion/irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system.	Category 4 Category 4 Category 2 Category 2 Category 3
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Label Elements

Signal Word Warning

Hazard Statements

Harmful if swallowed Harmful in contact with skin Causes skin irritation Causes serious eye irritation Harmful if inhaled May cause respiratory irritation



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/sprav

Use only outdoors or in a well-ventilated area

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell

Skin

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor/physician if you feel unwell

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Benzyltrimethylammonium bromide	5350-41-4	>95

4. First-aid measures		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.	
Inhalation	Move to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. If not breathing, give artificial respiration.	
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.	

Most important symptoms and	No information available.
effects	
Notes to Physician	Treat symptomatically

	5. Fire-fighting measures
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	t No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO₂) Nitrogen oxides (NOx)

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

<u>NFPA</u> Health 2	Flammability 1	Instability 1	Physical hazards N/A
	6. Accidental rel	lease measures	
Personal Precautions Environmental Precau			uipment. Avoid dust formation. on 12 for additional ecological
Methods for Containm Up	ent and Clean Sweep up or vacuum up sp formation.	billage and collect in suitable o	container for disposal. Avoid dust
	7. Handling a	and storage	
Handling		fume hood. Wear personal p g. Avoid ingestion and inhalat	rotective equipment. Do not get in ion.
Storage	Keep containers tightly clos	sed in a dry, cool and well-ver	ntilated place.
8. Exposure controls / personal protection			
Exposure Guidelines		ain any hazardous materials v gion specific regulatory bodies	
Engineering Measures	Use only under a chemical are close to the workstation		vash stations and safety showers
Personal Protective Ec	<u>quipment</u>		

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	Off-white
Odor	No information available
Odor Threshold	No information available
pH	No information available
Melting Point/Range	228 - 234 °C / 442.4 - 453.2 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C10 H16 Br N
Molecular Weight	230.15

10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Hygroscopic.	
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation. Exposure to moist air or water.	
Incompatible Materials	Strong oxidizing agents	
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx)		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

11. Toxicological information

Acute Toxicity

Product Information Component Information Toxicologically Synergistic

No information available

Products Delayed and immed	liate effects as w	vell as chronic effe	cts from short an	d long-term expo	sure_	
Irritation	on Irritating to eyes, respiratory system and skin					
Sensitization No information available						
Carcinogenicity		The table below in	dicates whether ea	ach agency has lis	ted any ingredient	as a carcinogen.
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Benzyltrimethylammon ium bromide	5350-41-4	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ailable			
Reproductive Effect	ts	No information ava	ailable.			
Developmental Effects No information available.						
Teratogenicity		No information ava	ailable.			
STOT - single exposureRespiratory systemSTOT - repeated exposureNone known						
Aspiration hazard No information available						
Symptoms / effects,both acute and No information available delayed						
Endocrine Disruptor Information No information available						
Other Adverse Effe	Other Adverse Effects The toxicological properties have not been fully investigated.					
	12. Ecological information					
Ecotoxicity No information available.						
Persistence and De	gradability	Persistence is unlikely				
Bioaccumulation/ A	ccumulation	No information available.				
Mobility						
Component			log Pow			
Ben	zyltrimethylammoni				-2.38	
		13. Dispo	sal conside	erations		
Waste Disposal Met	thods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.				

14. Transport information		
DOT UN-No Proper Shipping Name Proper technical name Hazard Class Packing Group TDG UN-No	UN2811 TOXIC SOLID, ORGANIC, N.O.S. Benzyltrimethylammonium bromide 6.1 III UN2811	

Proper Shipping Name Hazard Class Packing Group	TOXIC SOLID, ORGANIC, N.O.S. 6.1 III
IATA	
UN-No	UN2811
Proper Shipping Name	Toxic solid, organic, n.o.s
Hazard Class	6.1
Packing Group	III
IMDG/IMO	
UN-No	UN2811
Proper Shipping Name	Toxic solid, organic, n.o.s
Hazard Class	6.1
Packing Group	III
	15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Benzyltrimethylammonium	-	-	-	226-320-2	-		Х	Х	-	-	-
bromide											

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable				
SARA 313	Not applicable				
SARA 311/312 Hazard Categories	See section 2 for more information				
CWA (Clean Water Act)	Not applicable				
Clean Air Act	Not applicable				
OSHA Occupational Safety and Health Administration Not applicable					
CERCLA	Not applicable				
California Proposition 65	This product does not contain any Proposition 65 chemicals				
U.S. State Right-to-Know Regulations	Not applicable				
U.S. Department of Transportation					
Reportable Quantity (RQ): DOT Marine Pollutant	N N				

DOT Severe Marine Pollutant

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

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Other International Regulations

Mexico - Grade	No information available			
	16. Other information			
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com			
Creation Date Revision Date Print Date Revision Summary	11-Jan-2010 19-Jan-2018 19-Jan-2018 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).			

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS